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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INCORP ECN 01102, 01134, 01161 & 01917	08/16/07	S. JOSEPH
B	INCORP ECN 02180 & 02942	07/26/10	P. BRAVO
C	INCORP ECN 03825	03/08/13	P. BRAVO
D	INCORP ECN 03906	06/05/13	P. BRAVO
E	INCORP ECN 03978 & 05272	12/07/15	P. BRAVO
F	INCORP ECN 05737	05/23/17	P. BRAVO
G	INCORP ECN 05789 & 06360	09/25/19	P. BRAVO
H	INCORP ECN 06555	12/03/20	J. GARDINER
J	INCORP ECN 06742	07/28/21	J. GARDINER

NOTES: UNLESS OTHERWISE SPECIFIED

- 1

MATERIAL: 2X2 TWILL 284 EPOXY CARBON PREPREG, 38% ±3% RESIN CONTENT.  
VENDOR: ALDILA
- 2

MATERIAL: 2024-T3 ALUMINUM
- 3

FINISH IAW MPP-172: ANODIZE PER SECTION 2.1; PRETREAT PER SECTION 3.3; PRIME PER SECTION 4.3;  
TOP COAT PER SECTION 5.2.
- 4

MATERIAL: CLEAR ACRYLIC .030 THK
- 5

APPLY VELCRO LOOP AND FABRIC TO ALL FLANGE AREAS PRIOR TO SNAP INSTALLATION
- 6

INSTALL F/N 12 AND 16 TO INSIDE SURFACE OF ENDCAPS WITH F/N 19 IN ACCCORDANCE TO MPP-56;  
SEAL OUTSIDE GAP WITH F/N 14
- 7

PART GEOMETRY AND HOLE LOCATIONS CONTROLLED BY CAD MODEL  
FORMAT FILE NAME AS:  
644.02XX(PART NUMBER) XXX(REVISION LEVEL) XXXXXXXXX(DESCRIPTION) XX-XX-XX(DATE)
- 8

FOR MATERIAL 600.0032, SEE SPEC MIL-PRF-20696, TYPE I, CLASS 2.
- 9

FOR MATERIAL 600.0025, SEE SPEC AMS-021.
- 10

SURFACE COATING: PROTECTIVE WAX COATING.
- 11

MATERIAL #120 E-GLASS PREPREG WITH 48% RC  
APPLY 1 GLASS FIBER LAYER 2" X 2" ON BOTH SIDES OF THE PART CENTERED WHERE LOCATED

			A/R	A/R	A/R	A/R	20	600.0508	THREAD	V-T-295, SIZE F	
				A/R		A/R	19	600.0901	LA 4009	6	
2	2	2				1	18	601.1710	RIVET	MS20426AD3-4	
1	1	1				1	17	601.2180	NUTPLATE	MS21076L04N	
			1	1	2	2	16	644.0221	DOUBLER	9	
			.53YD	.53YD	.53YD	.53YD	15		2.25" TAPE	8	
			A/R	A/R	A/R	A/R	14	601.2045	RTV, BLACK	LOCTITE 598	
							13		DELETED		
			1	1	2	2	12	644.0218	CLEAR PLASTIC	4	
			10	10	10	10	11	600.0543	EYELET	MS27980-10B	BLACK
			10	10	10	10	10	600.0513	STUD	MS27980-7B	BLACK
			.93YD	.93YD	.93YD	.93YD	9	600.0402	VELCRO, 1" HOOK		MIL-F-21840 TYPE I CLASS 1
1							8	644.0217	UPPER BRACKET	2	3
							7		DELETED		
	1						6	644.0215	OUTER BRACKET	2	3
		1					5	644.0214	INNER BRACKET	2	3
			1				4	644.0213	RH AFT ENDCAP	1	10
				1			3	644.0212	LH AFT ENDCAP	1	10
					1		2	644.0211	RH FWD ENDCAP	1	10
						1	1	644.0210	LH FWD ENDCAP	1	10
X	X							644.0207	UPPER BRACKET ASSY		
	X	X						644.0206	OUTER BRACKET ASSY		
		X						644.0205	INNER BRACKET ASSY		
			X					644.0204	RH AFT ENDCAP ASSY		
				X				644.0203	LH AFT ENDCAP ASSY		
					X			644.0202	RH FWD ENDCAP ASSY		
						X		644.0201	LH FWD ENDCAP ASSY		

QTY			PARTS LIST		
0207	0206	0205	0204	0203	0202
0201	FIND #		PART #	DESCRIPTION	MAT'L
SPEC.					
			NEXT ASSY (\$)	ORIGINAL DATE (MO-DA-YR)	04-12-05
			644.0500	DRAWN BY	CHECKER
				P. BRAVO	S. JOSEPH
				DRAWING APPROVAL	04-13-05
				S. JOSEPH	CONTRACT No.
			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.03 3 PLACE DECIMALS ±.010 ANGLES ± .5°		
SIZE	CAGE CODE	DWG. NO.	REV.		
B	07MZ6	644.0200	J		
SCALE			SHEET 1 OF 7		

DART

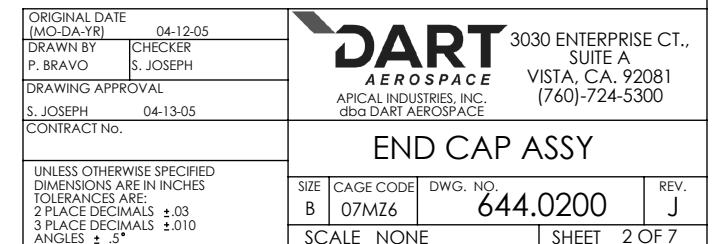
AEROSPACE

APICAL INDUSTRIES, INC.  
dba DART AEROSPACE

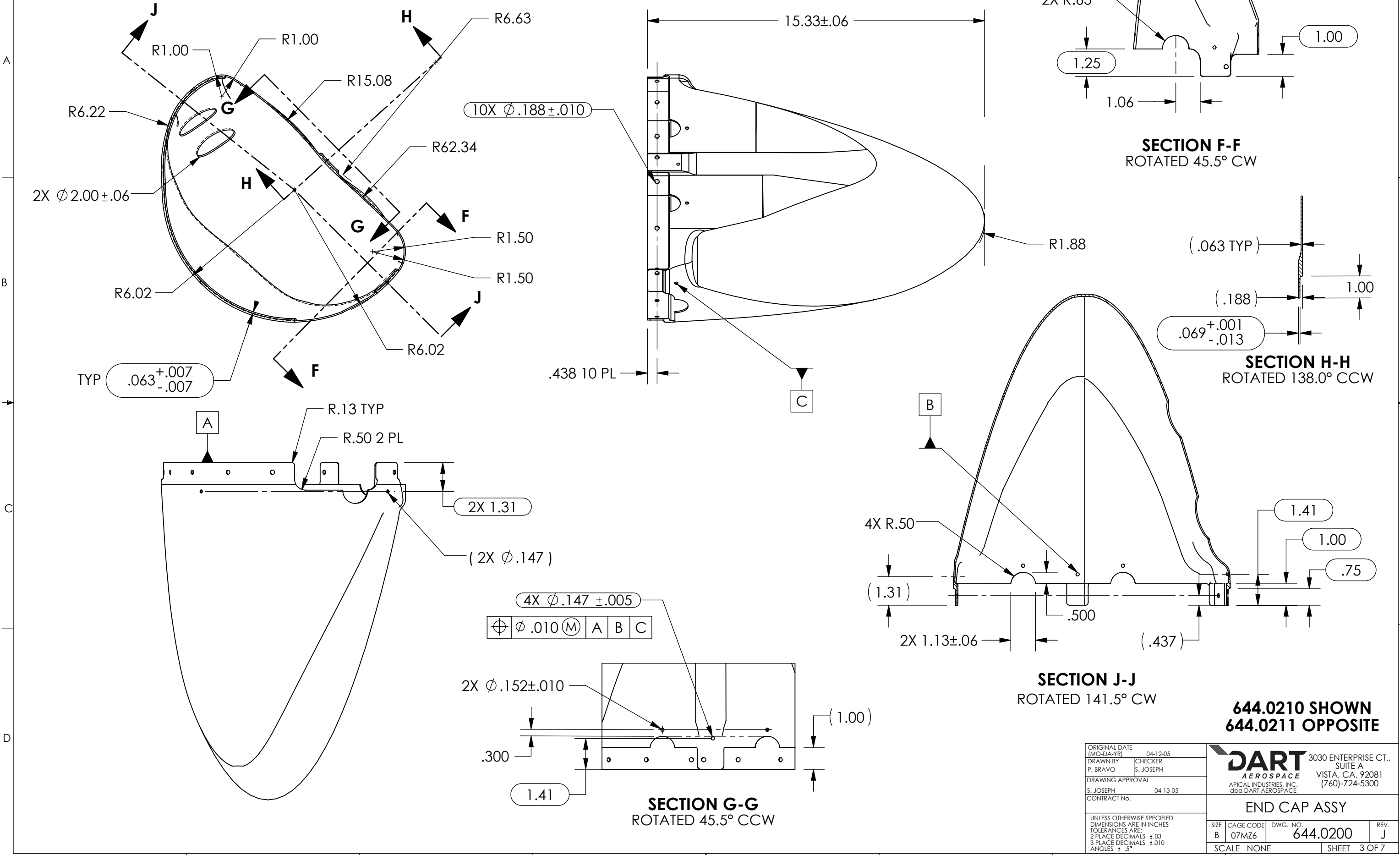
3030 ENTERPRISE CT.,  
SUITE A  
VISTA, CA. 92081  
(760)-724-5300

END CAP ASSY

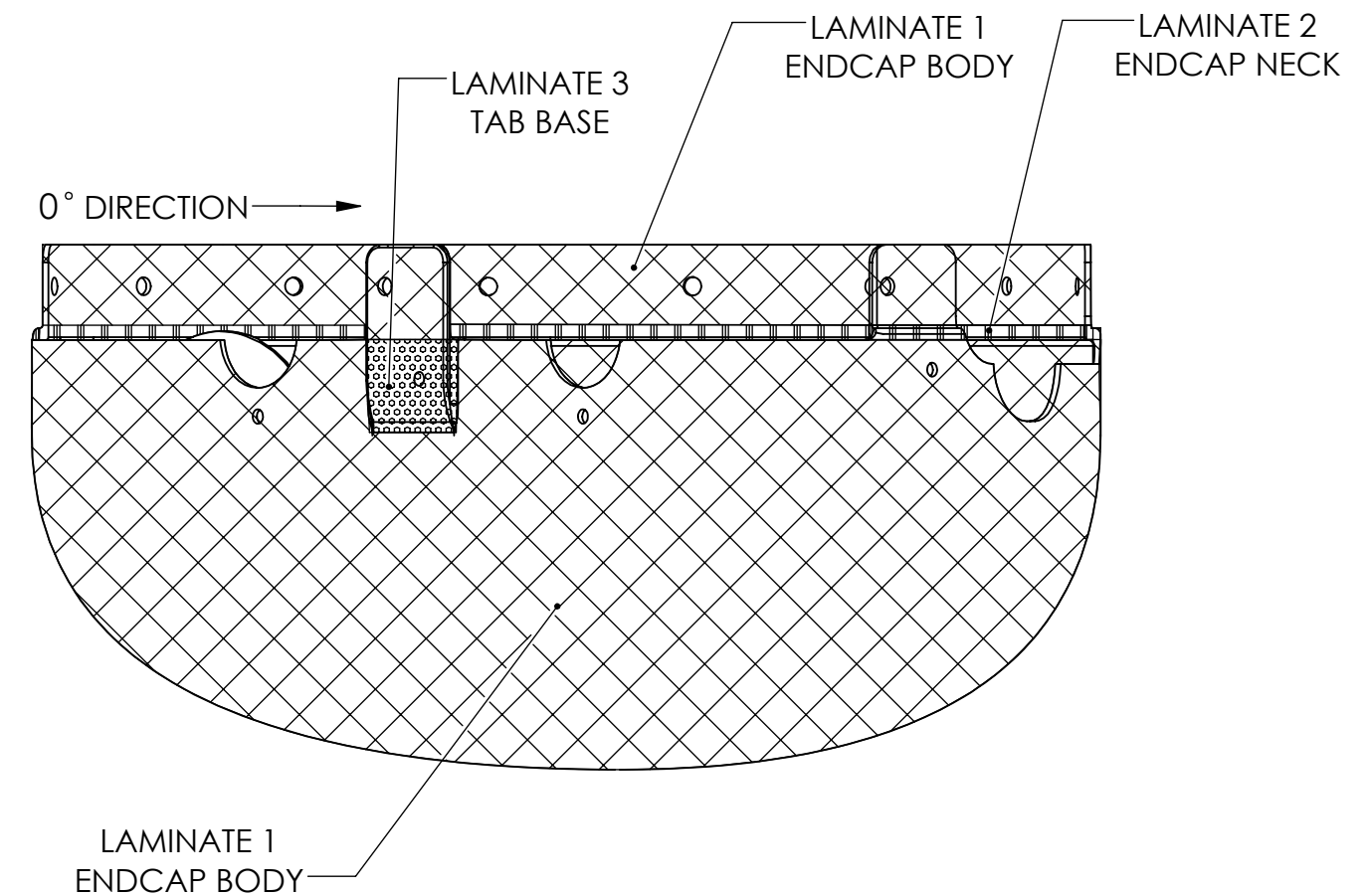
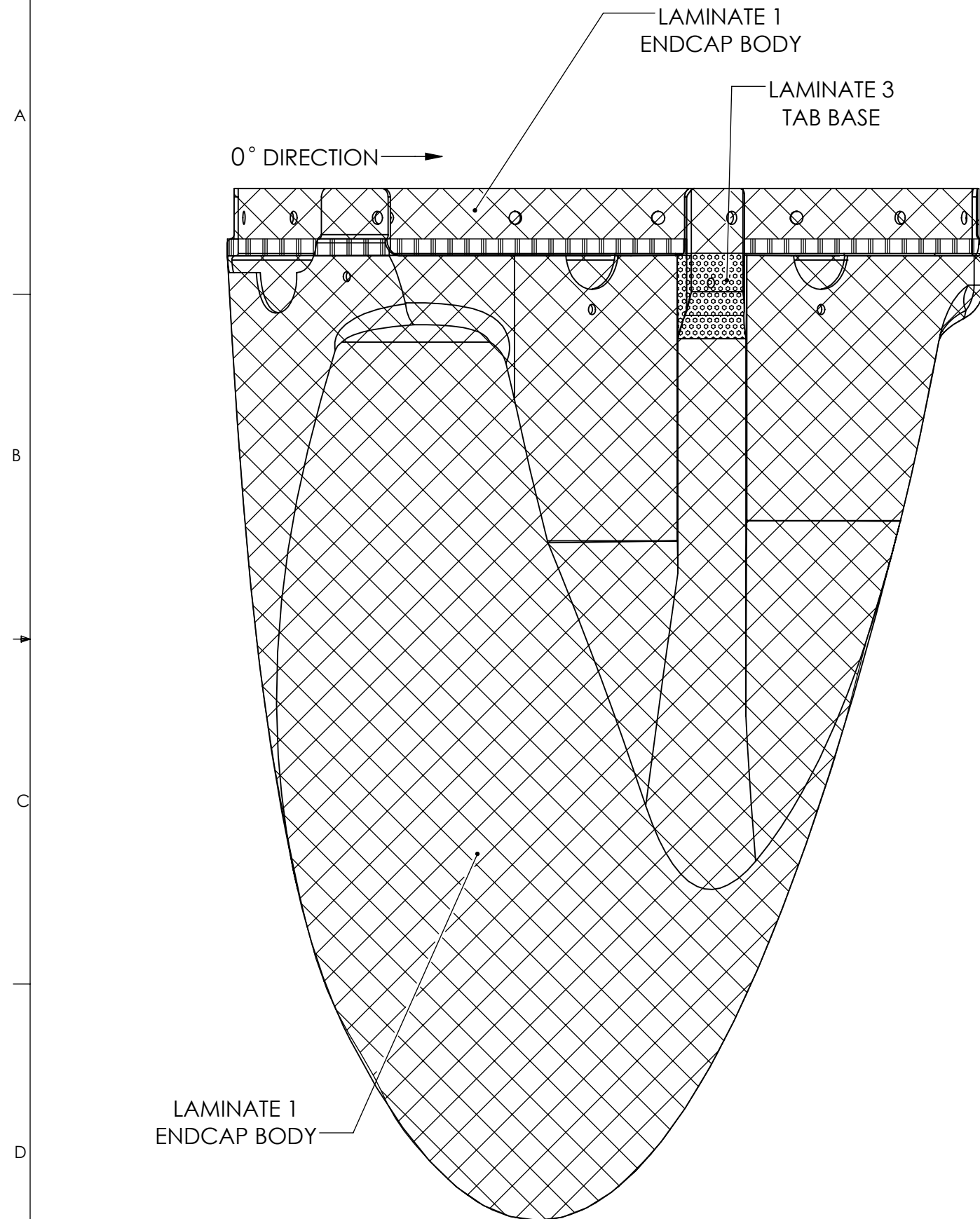
D




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
















ORIGINAL DATE (MO-DA-YR) 04-12-05		 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300			
DRAWN BY P. BRAVO	CHECKER S. JOSEPH			APICAL INDUSTRIES, INC. dba DART AEROSPACE	
DRAWING APPROVAL S. J. JOSEPH 04-13-05					
CONTRACT NO.		END CAP ASSY			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.013 3 PLACE DECIMALS ±.010 ANGLES ± .5°		SIZE B	CAGE CODE 07MZ6	DWG. NO. 644.0200	REV. J
		SCALE NONE			SHEET 4 OF 7

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







LAYUP OF PREPREG LAYERS  
0.070 <sup>+0.000</sup><sub>-.014</sub> THICKNESS

LAMINATE 1 - 0.070 <sup>+0.000</sup> <sub>-.014</sub> in OVERALL THICKNESS			
PLY	WARP ANGLE	MATERIAL	THICKNESS
P01	0		.008-.010
P02	90		.008-.010
P03	0		.008-.010
P04	90		.008-.010
P05	0		.008-.010
P06	90		.008-.010
P07	0		.008-.010

LAYUP OF PREPREG LAYERS  
0.170 <sup>+0.000</sup><sub>-.034</sub> THICKNESS

LAMINATE 2 - 0.170 <sup>+0.000</sup> <sub>-.034</sub> in OVERALL THICKNESS			
PLY	WARP ANGLE	MATERIAL	THICKNESS
P01	0		.008-.010
P02	90		.008-.010
P03	0		.008-.010
P04	90		.008-.010
P05	0		.008-.010
P06	90		.008-.010
P07	0		.008-.010
P08	90		.008-.010
P09	0		.008-.010
P10	90		.008-.010
P11	0		.008-.010
P12	90		.008-.010
P13	0		.008-.010
P14	90		.008-.010
P15	0		.008-.010
P16	90		.008-.010
P17	0		.008-.010

LAYUP OF PREPREG LAYERS  
0.200 <sup>+0.000</sup><sub>-.040</sub> THICKNESS

LAMINATE 3 - 0.200 <sup>+0.000</sup> <sub>-.040</sub> in OVERALL THICKNESS			
PLY	WARP ANGLE	MATERIAL	THICKNESS
P01	0		.008-.010
P02	90		.008-.010
P03	0		.008-.010
P04	90		.008-.010
P05	0		.008-.010
P06	90		.008-.010
P07	0		.008-.010
P08	90		.008-.010
P09	0		.008-.010
P10	90		.008-.010
P11	0		.008-.010
P12	90		.008-.010
P13	0		.008-.010
P14	90		.008-.010
P15	0		.008-.010
P16	90		.008-.010
P17	0		.008-.010
P18	90		.008-.010
P19	0		.008-.010
P20	90		.008-.010

ORIGINAL DATE  
(MO-DA-YR) 04-12-05


DRAWN BY  
P. BRAVO

CHECKER  
S. JOSEPH

DRAWING APPROVAL  
S. JOSEPH  
04-13-05

CONTRACT No.

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3 PLACE DECIMALS ±.010  
ANGLES ± .5°

3030 ENTERPRISE CT.,  
SUITE A  
VISTA, CA. 92081  
(760)-724-5300

END CAP ASSY

SIZE  
B

CAGE CODE  
07MZ6

DWG. NO.  
644.0200

REV.  
J

SCALE NONE

SHEET 5 OF 7



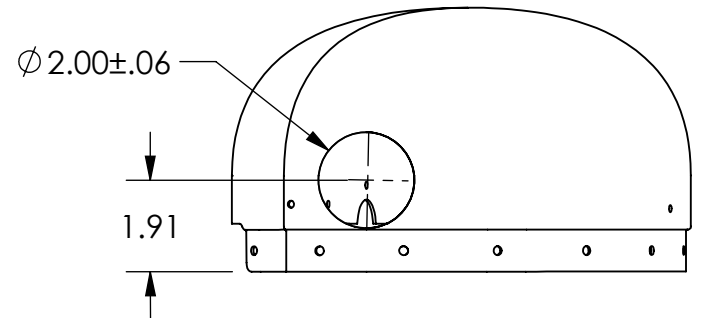
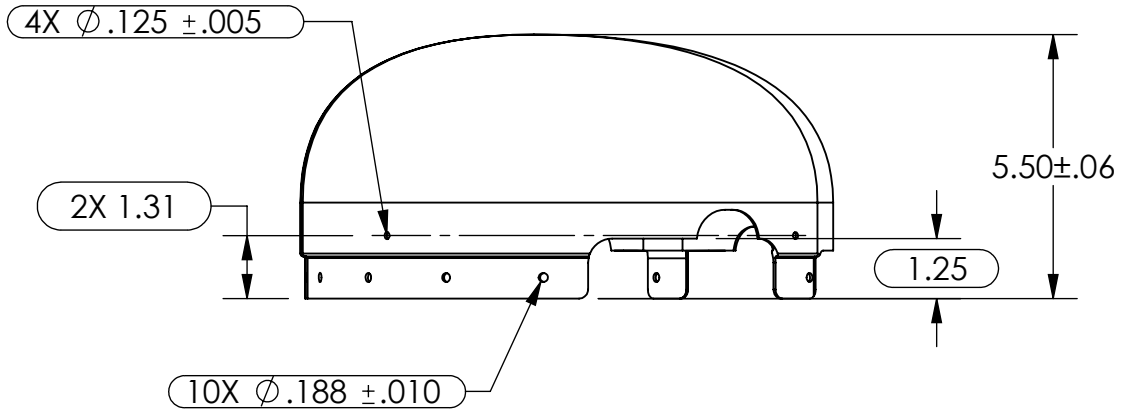
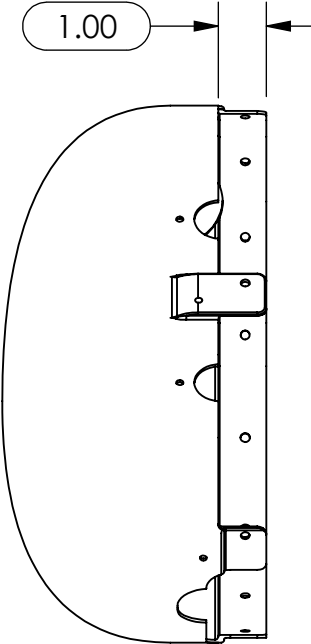
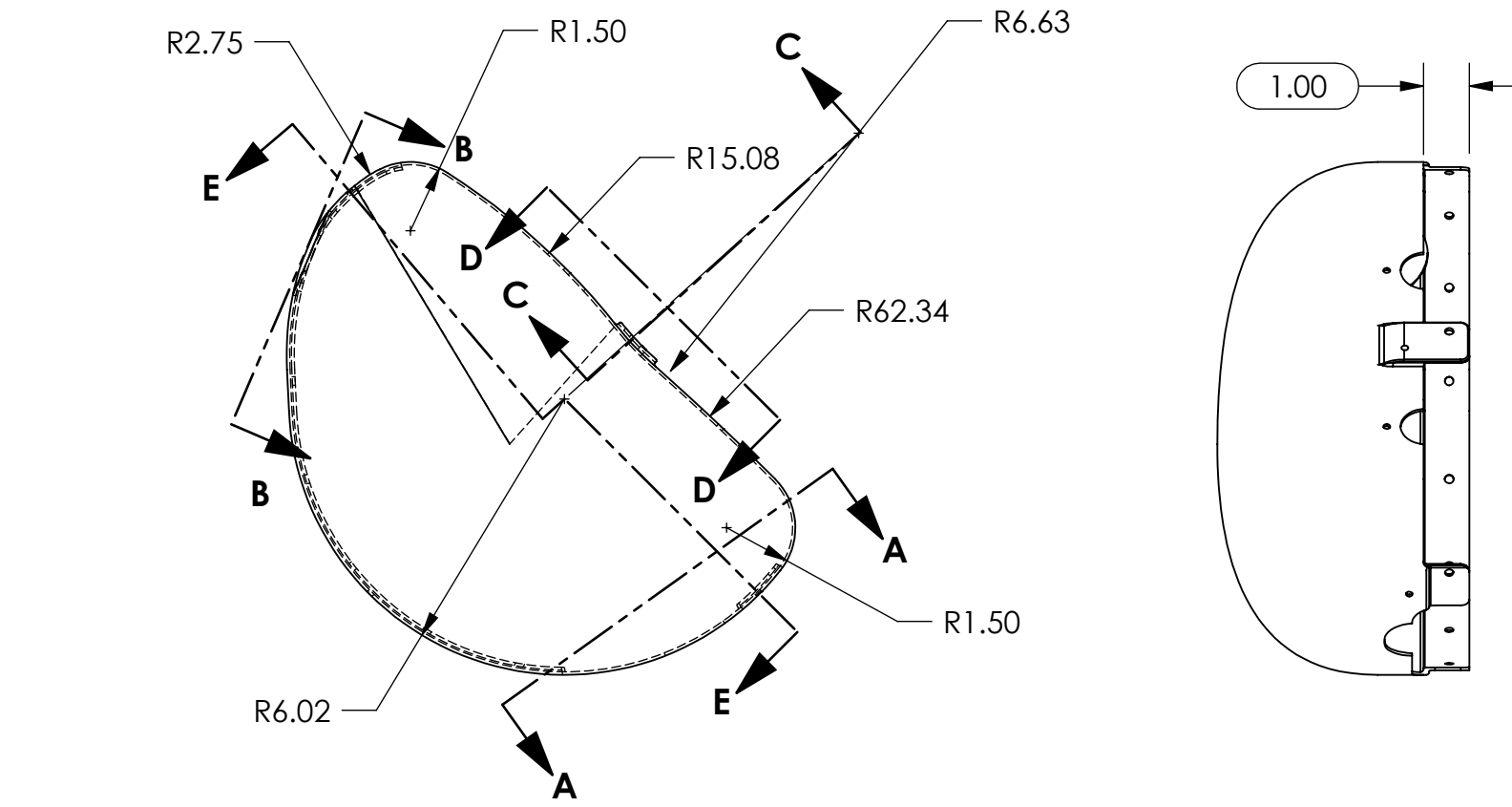
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A

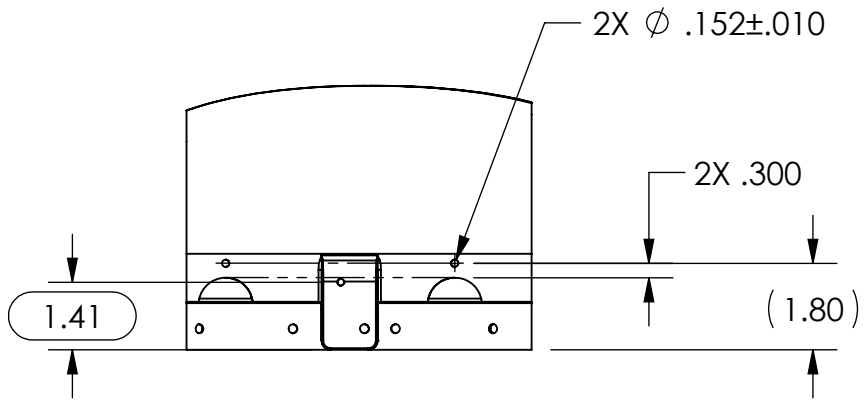
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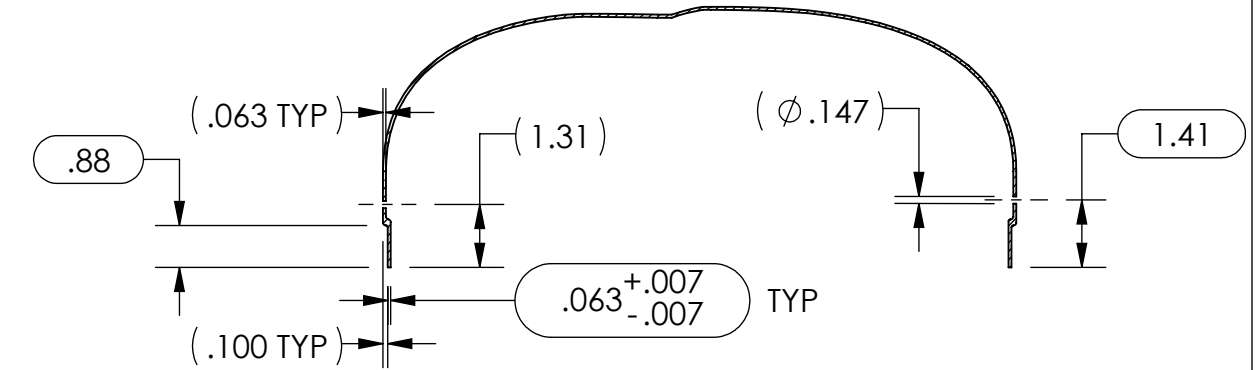
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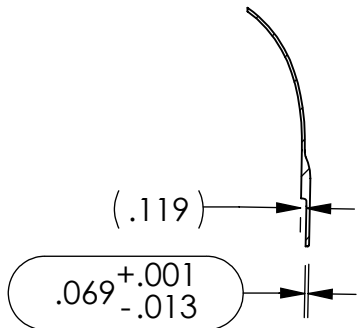
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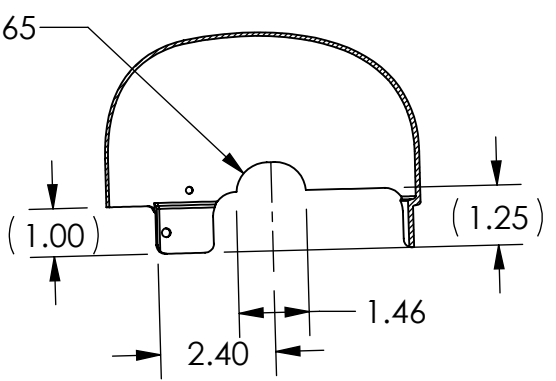
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ROTATED 135.1° CW



SECTION E-E  
ROTATED 130.4° CW



SECTION C-C  
ROTATED 43.4° CW



SECTION A-A  
INSIDE VIEW  
ROTATED 146.0° CCW

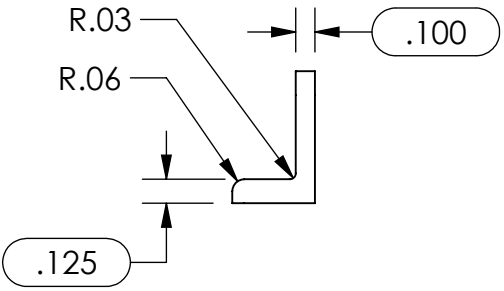
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644.0213 OPPOSITE

ORIGINAL DATE (MO-DA-YR)	04-12-05
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DRAWING APPROVAL S. JOSEPH	04-13-05
CONTRACT No.	

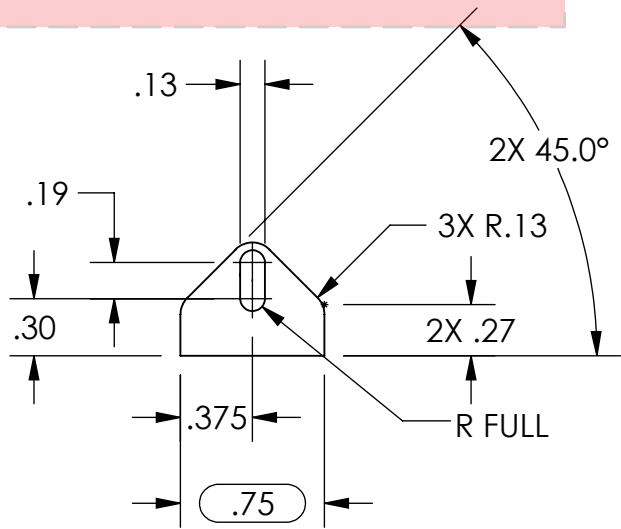
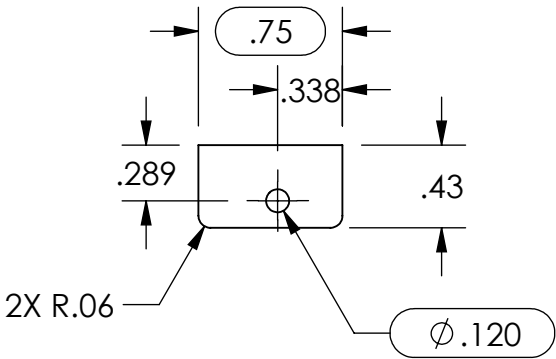
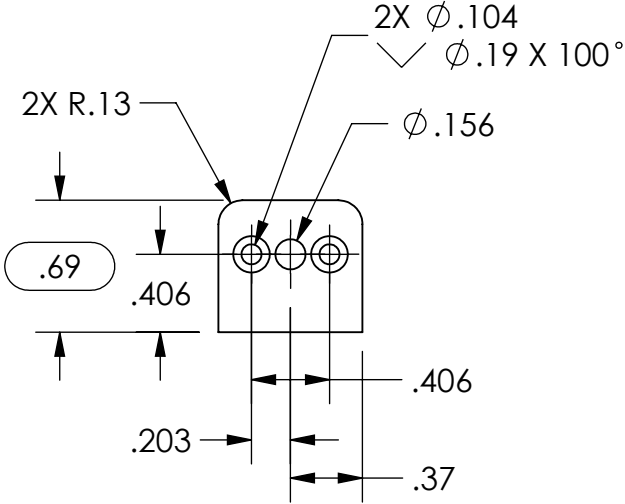
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3 PLACE DECIMALS ±.010  
ANGLES ± .5°

<b>DART</b> AEROSPACE APICAL INDUSTRIES, INC. dba DART AEROSPACE			3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300		
END CAP ASSY					
SIZE B	CAGE CODE 07MZ6	DWG. NO. 644.0200	REV. J		
SCALE NONE			SHEET 6 OF 7		

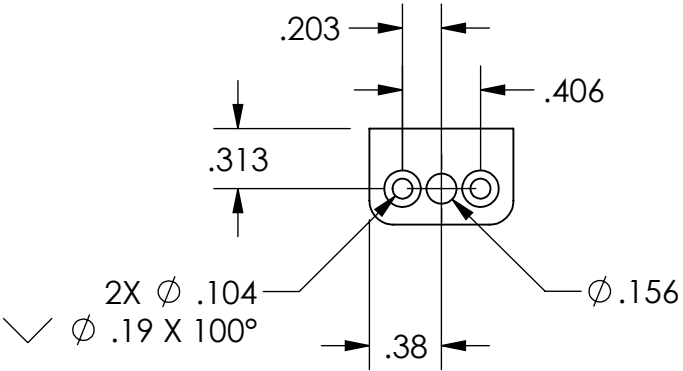
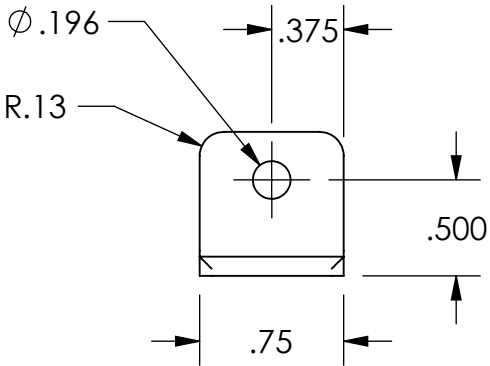
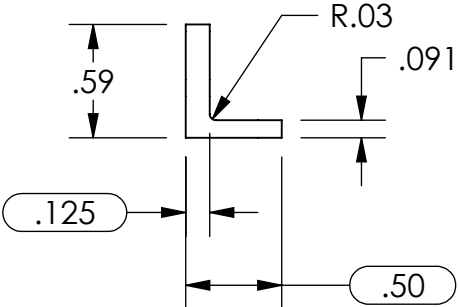
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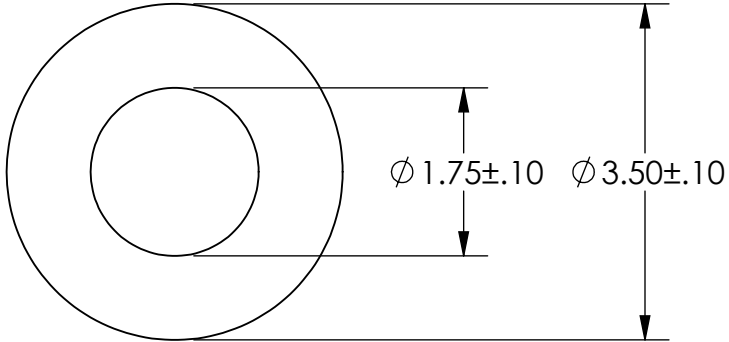
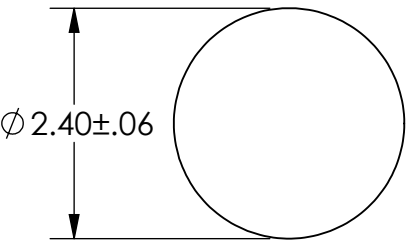
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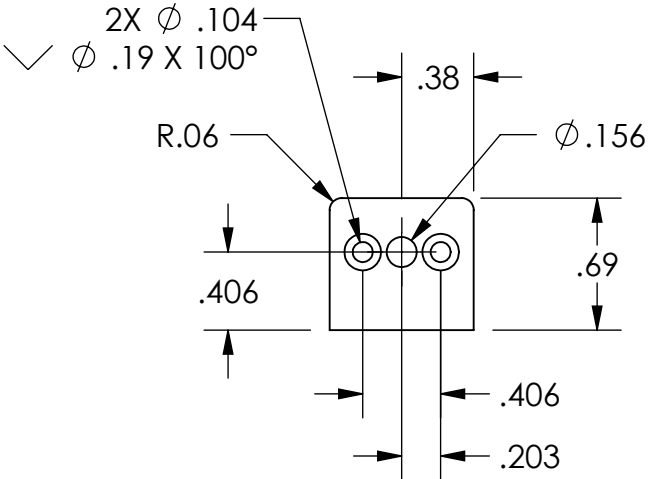
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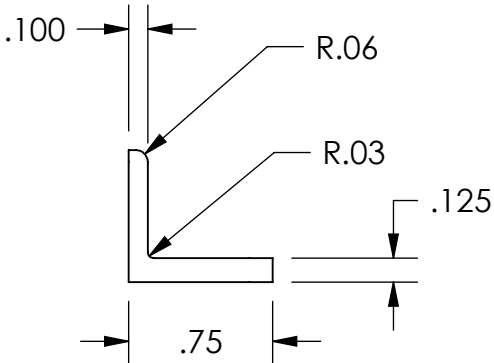
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644.0221 SHOWN



644.0217 SHOWN



ORIGINAL DATE (MO-DA-YR) 04-12-05		<b>DART</b> 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY P. BRAVO	CHECKER S. JOSEPH		
DRAWING APPROVAL S. JOSEPH 04-13-05		END CAP ASSY	
CONTRACT No.		SIZE B	REV. J
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.03 3 PLACE DECIMALS ±.010 ANGLES ± .5°		CAGE CODE 07MZ6	DWG. NO. 644.0200
		SCALE NONE	SHEET 7 OF 7